BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work : **Estimate for Construction of Concrete Roads in Thindlu Veerabhadraswamy Temple Road in Ward No. 09, Vidyaranyapura Sub Division.**

							Estimate Cost:	1900000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	CC Road I/F Veerabhadraswamy Temple		1	25.00	8.50	0.25	53.13		
			1	25.00	0.30	0.25	1.88		
			2	8.10	0.30	0.25	1.22		
	Thindlu opp PHC		1	95.00	5.15	0.20	97.85		
	Aproach Road to Temple from Thindlu Kodigehalli Main Road		2	60.00	1.80	0.20	43.06		
	Desilting of Drain I/F of Temple		1	25.00	0.70	0.45	7.88		
							205.00	75.60	**15498.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
			1	100.00		1.20	120.00		
							120.00	58.32	**6998.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				**120.00**	75.60	**9072.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	CC Road I/F Veerabhadraswamy Temple		1	25.00	8.10	0.15	30.30		
			1	25.00	0.30	0.15	1.12		
			2	8.10	0.30	0.15	0.73		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Thindlu opp PHC		1	95.00	5.15	0.13	63.60		
	Existing Drain bottom I/F of Temple		1	25.00	0.70	0.10	1.75		
							97.50	4847.04	**472594.00**
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	**4847.04**							
5	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry Basement **with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.12 / PWD SR 2014-15**	Cum							
			2	25.00	0.60	0.60	18.00		
							18.00	4773.60	**85925.00**
	Basic Rate	4420.00							
	Area Weightage @ 8%	353.60							
	Total	**4773.60**							
6	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. **Page No. 109 / Item No. 15.4 / PWD SR 2014-15**	Sqm							
			4	50.00		0.90	180.00		
							180.00	92.88	**16718.00**
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	**92.88**							
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	For drain Coping		2	25.00	0.60	0.15	4.45		
			1	25.00	0.70	0.15	2.63		
	Drain vent		1	18.30	3.25	0.15	8.92		
							16.00	5327.64	**85222.26**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	**5327.64**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2014-15**	Cum							
a	CC Road I/F Veerabhadraswamy Temple		1	25.00	10.30	0.15	38.63		
			1	25.00	0.15	0.20	0.75		
			2	8.10	0.15	0.20	0.49		
	Thindlu opp PHC		1	95.00	5.15	0.13	63.64		
							103.50	6065.28	**627763.00**
	Basic Rate	5616.00							
	Area Weightage @8%	449.28							
	Total	**6065.28**							
9	KSRB 4.9.1: **Providing mild steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.45 / PWD SR 2014-15**	Qtl							
	Consider 80 Kg / Cum			0.7	21.00		**14.70**	**7975.80**	**117244.26**
	Basic Rate	7385.00							
	Area Weightage @ 8%	590.80							
	Total	**7975.80**							
10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31/ PWD SR 2014-15**	Sqm							
			4	8.10	0.60		19.44		
			2	25.00	0.55		27.50		
			2	95.00	0.35		66.50		
			2	95.00	0.35		66.50		
							180.00	**292.68**	**52682.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater rubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **171 / Item No. 22.7 / PWD SR 2014-15**	Sqm							
			1	25.00	2.60		65.00		
			1	95.00	5.10		485.00		
							550.00	97.20	**53460.00**
	Basic Rate	90.00							
	Area Weightage @8%	7.20							
	Total	**97.20**							
12	Providing groove cutting for **cement pavement** with of 5mm to 10mm and depth 800mm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including cleaning of groove and providing sand and hot bitumen fillarsm and filler metal etc including of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications **Page No. 172 / Item No. 22.8 / PWD SR 2014-15**	Rmt							
			1	25.00			25.00		
			4	8.00			30.00		
			10	5.00			50.00		
							105.00	124.20	**13041.00**
	Basic Rate	115.00							
	Area Weightage @8%	9.20							
	Total	**124.20**							
13	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 157 / Item No. 21.3 / PWD SR 2014-15**	Sqm							
	Temple Aproach Road		1	60.00	7.50		**450.00**	82.94	**37325.00**
	Basic Rate	76.80							
	Area Weightage @ 8%	6.14							
	Total	**82.94**							
14	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15.**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	4th Main Road		1	60.00	7.50	0.18	78.75		
							78.75	1438.56	**113287.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
15	KSRRB 500-1.1 : **Cleaning the existing WBM** road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **P. 157 / I. 21.1 PWDSR 2014-15**	Sqm							
			1	60.00	7.50		450.00		
							450.00	12.20	**5492.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
16	KSRRB M500-6: **Providing and applying primer coat for surfaces of medium porosity** like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.5 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 04				450.00		
							450.00	74.52	**33534.00**
	Basic Rate	69.00							
	Area Weightage @ 8%	5.52							
	Total	**74.52**							
17	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. **using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15**	Cum							
			1	60.00	7.50	0.025	11.25		
							11.25	11070.00	**124538.00**
	Basic Rate	10250.00							
	Area Weightage @ 8%	820.00							
	Total	**11070.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum					143.50		10557.00
			Vide Item No. 1				**175.91**	73.57	**12941.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
7	Sub Total								**1880725.00**
8	For Third Part QC inspection Charges @ 1% of Estimate Cost								**18807.00**
9	Miscellaneous and other Charges	L/S							**468.00**
								Total	**1900000.00**
	(Rs. Ninteen Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer 18/11/2014
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs. 19.00 Lakhs
Rupees ~~Nineteen~~ Nineteen Lakhs only
Under P-2178 by. Mayor Grant
Registered as EE ( ) No 9....9....
Subject to conditions contained in enclosed memo EE ( ) No /9/....
Dt Estimate A/Sanctioned No- 1115/2014-15
dated 4/12/2014 Rs 19.00 Lakhs

Technical Sanction for Rs. 19.00 Lakhs
Nineteen Lakhs only
Registered as 50 22/12/14
to condition...
No: /270/14-15 Dt. 22-12-14
AEE/JE
EE (BTP.Div.)

4/12/14

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, BYATARAYANAPURA DIVISION

Lead Statement for Srinivaspura Dumping Yard for Ward No. 09,
Vidyaranyapura Sub Division.

Lead Distance

1.	From BBMP Sub Division office to Devi Circle	1.50 Kms
2.	From Devi Circle to Thirumala Daba	2.00 Kms
3.	From Thirumala Daba to 3rd Cross SBI Bank	2.00 Kms
4.	From 3rd Cross SBI Bank to Sheshadripuram College	0.50 Kms
5.	From Shesadripuram College to Police Station	0.80 Kms
6.	From Police Station to Kogilu Cross	0.60 Kms
7.	From Kogilu Cross to Srinivasapura	4.00 Kms
8.	From Srinivasapura to Dumping Yard	0.50 Kms
	Total	**11.90 Kms**

Certificate:

1. Certified that the Srinivasapura Dumping Yard us the approved dumping yard for ward no. 09 BBMP
2. BBMP Sub Division office Vidyaranyapura is taken as the centre place for calculating the lead distance for ward no. 09.
3. The above distance is the shortest distance for calculating the lead.

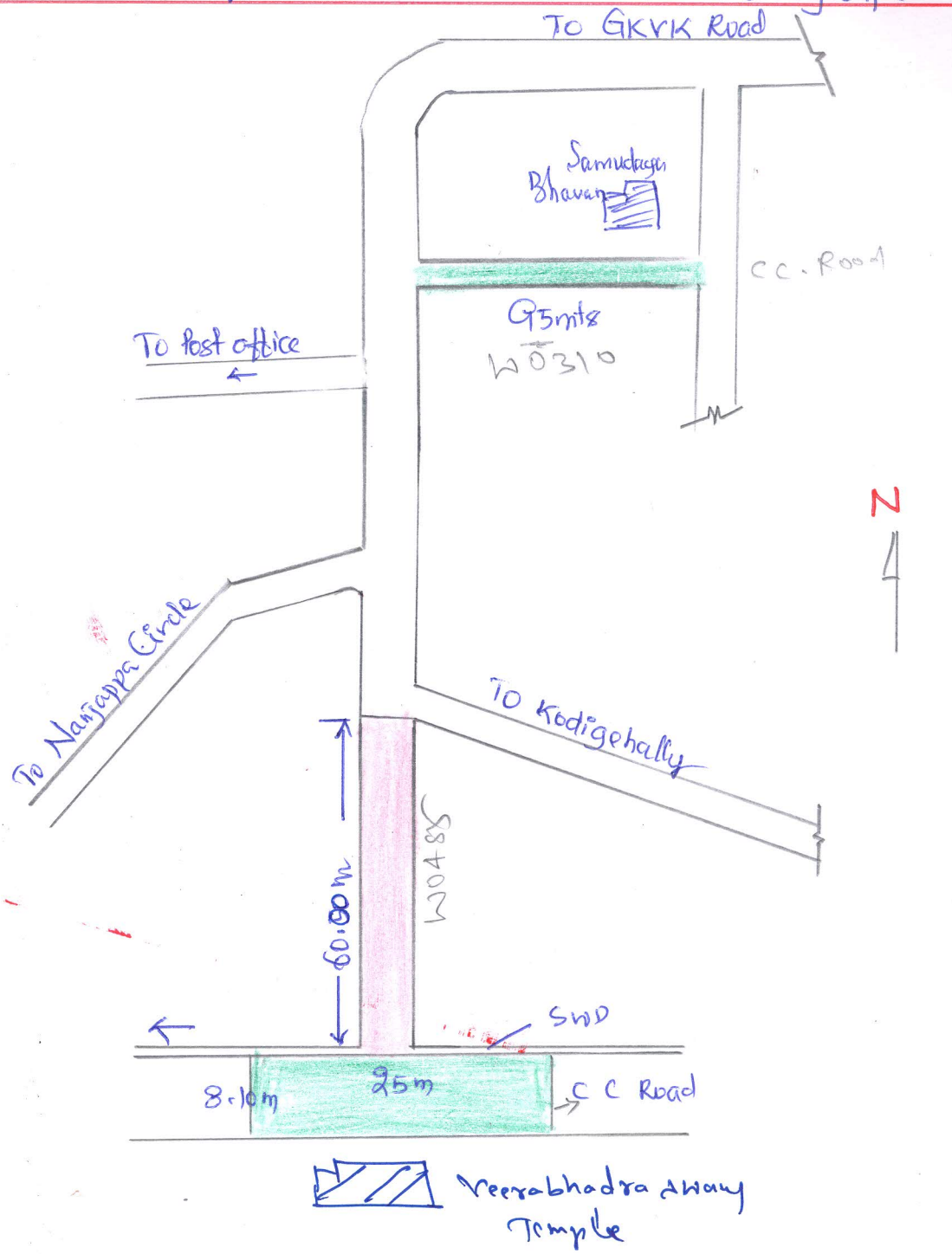
Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Byatarayanapura Division

Name of work :- Construction of Concrete Roads in Hindlu Veerabhadhra Swamy Temple - W.9



INDEX :

C.C. ROAD

Asphalting Road

Assistant Executive Engineer
Sub Division
BBMP, Bangalore - 97